


**FLUIDS MANIPULATION DEVICE WITH FORMAT CONVERSION**

**Patent number:** WO0056442  
**Publication date:** 2000-09-28  
**Inventor:** ZENGERLE ROLAND (DE); HEY NICOLAUS (DE);  
GRUHLER HOLGER (DE); FREYGANG MICHAEL (DE);  
MUELLER MARTIN (DE)  
**Applicant:** HAHN SCHICKARD GES (DE); ZENGERLE ROLAND  
(DE); HEY NICOLAUS (DE); GRUHLER HOLGER (DE);  
FREYGANG MICHAEL (DE); MUELLER MARTIN (DE)  
**Classification:**  
**- International:** B01J19/00; B01L3/02; F04B19/00; G01N35/10;  
B01J19/00; B01L3/02; F04B19/00; G01N35/10; (IPC1-  
7): B01J19/00; B01L3/02; F04B19/00  
**- european:** B01J19/00C; B01L3/02D; F04B19/00M; G01N35/10M1  
**Application number:** WO2000EP02542 20000322  
**Priority number(s):** DE19991013076 19990323

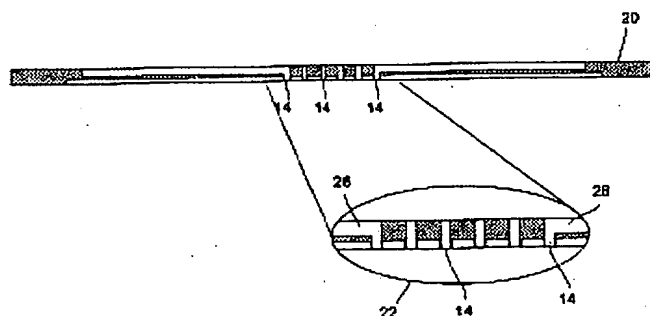
**Cited documents:**

 WO9851999  
 WO9745730  
 US5847105

[Report a data error here](#)

**Abstract of WO0056442**

The invention relates to a fluids manipulation device comprising a substrate (20) having a first surface (21) and a second surface (23). A plurality of fluid inlets (28), preferably media reservoirs, following a first pattern is formed on the first surface (21) of the substrate (20). A plurality of fluid outlets, preferably nozzles, following a second pattern differing from the first pattern is formed on the second surface (23) of the substrate (20). A plurality of fluid lines (26) formed on the substrate (20) for connecting the fluid inlets (28) to the corresponding fluid outlets (14) is provided so that format conversion is effected from the fluid inlets to the fluid outlets.



Data supplied from the **esp@cenet** database - Worldwide